										•.
Work Order II Tuesday, September 14		1								Page 1
Revision ID:	-667-203TRN		Accept				s s	Setup Star Stop		
Start Date: 9/14/2 Required Date: 9/21/2 Reference:		1 (9010)		Cust Item :	ID:					
Approvals: Proc	eess Plan:	Date:	Tooling: SPC (Y/N):		ate:		F	Run Star Stop		
Sequence ID/ Work Center ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr D206-667-243	Revision Nbr		•	The state of the s						
Mori Seiki CNC Lathe Larg	M 1- FA		0.00 0.00 plugs DT8534 on both ends as r Folio FA089□3-File down tra				a.m		00	-140
110 QC Quality Control	QC1- Inspect of	limensions to dimension she	et 0.00 0.00	ř		,	0	10-	09.	- 14 C

120

Mori Seiki

Mori Seiki CNC Lathe Large

MORI SEIKI CNC LATHE LARGE

Memo

0.00

0.00

1-Turn second side as per Folio FA089 = 2-File down transition lines smooth.

3-Remove sand and plugs 4-Scrib part# and batch #

0 m 10 - 09 - 140

W/O:		p.	4 WC	RK ORDER CHANG	ES					
DATE	STEP	PRC	CEDURE CHAI	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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		,								
Part No	·	PAR #:	Fault Cate	gory:	_ NCR:	Yes N	lo DQA	:	_ Date: _	
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NCR:			WORK ORDI	ER NON-CONFORMA	NCE	(NCR)				
DATE	CTED	Description of NC		Corrective Action Section 8			Verifica	ation	Approval	Approvai
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Sectio		Chief Eng	QC Inspector
										
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Work Order ID 61982

Tuesday, September 14, 2010 10:07:28 AM



Page 2

Item ID:

D206-667-203TRN

Accept

Setup Start

Stop



Revision ID:

Item Name:

Crosstube Turning Detail

Start Date:

9/14/2010

Start Qty: 1.00

Required Date: 9/21/2010 Req'd Qty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:_____

SPC (Y/N):

Date:

Stop

an 10-09-14 (1)

Work Center ID

130

Sequence ID/

Quality Control

Operation Description

QC1- Inspect dimensions to dimension sheet

Set Up/ **Run Hours**

0.00

Tool # Plan

Code Qty

Accept Reject Qty

Reject Number Stamp

Insp.

0.00

140

QC

Quality Control

QC8- Inspect parts - second check

Memo

0.00

Memo

0.00

Q MB 10-09-15

150

HandFXtube

Hand Finishing Crosstubes

Crosstubes Chemical Conversion .

Memo

SAD 10-09-15

W/O:			WC	ORK ORDER CHANG	ES						
DATE	STEP	PRO	WORK ORDER CHANGES PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	PAR #: Fault Category: Resolution: Disposition:				NCR: Yes No DQA: Date						
					QA: N/	C Clos	sed:		Date: _		
NCR:			WORK ORD	ER NON-CONFORM	ANCE (N	ICR)					
DATE	STEP	Description of NC		Corrective Action Section B			Verific	cation	Approval	Approval	
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng		gn & Date	Secti	on C	Chief Eng	QC Inspector	
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Work Order ID 61982

Page 3

Tuesday, September 14, 2010 10:07:28 AM

Item ID:

D206-667-203TRN

Accept



Setup Start

Stop



Revision ID:

Item Name:

Crosstube Turning Detail

Start Date:

Required Date: 9/21/2010

9/14/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date: Date:

Start Run

Stop

Sequence ID/ **Work Center ID**

Operation Description

QC:

QC3- Inspect Part Finish

Set Up/ **Run Hours**

0.00

Tool ID

Tool# Plan Code

Accept Reject **Qty Qty**

Reject Number

Insp. Stamp

Quality Control

Memo

0.00

170

Packaging

Packaging

Packaging

Memo

Memo

0.00

Identify and Stock in kanban rack Location:

10 & MB 10-09-15

180

Quality Control

QC21- Final Inspection - Work Order Release

0.00

0.00

10 109/16 /s) NUF 15

W/O:			W	ORK ORDER CHANG	GES								
DATE	STEP	PRO	PROCEDURE CHANGE					Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No	:	PAR #:	Fault Category: NC				NCR: Yes No DQA: Date:						
	Resolution: Disposition:												
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DATE	STEP	Description of NC	escription of NC Corrective Action				Verific	cation	Approval	Approval			
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date		ion C	Chief Eng	QC Inspector			
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Picklist Print

Tuesday, September 14, 2010 10:07:32 AM

Work Order ID: 61982

Parent Item:

D206-667-203TRN

Parent Item Name: Crosstube Turning Detail



Start Date: 9/14/2010

Required Date: 9/21/2010

Page 1

10.09-140

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:A 08-03-06 new issue DD verified by:ec

IPP Rev B 08.04.02 Removed polish EC verified by: DD IPP Rev C 09.01.06 ECN 08-562 EC verified by:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6004-115		Manufactured	No			100	Each	58.0000	1	1			

Crosstube Material

Location	Loc Qty	Loc Code
LG	58	
34685	17	
34774	5	
38336	36	

W/O:		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	WC	RK ORDER CHANG	GES				
DATE	STEP	PRO	PROCEDURE CHANGE				Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								Prod Mgr	
									,
							,		
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date: _	
Resolution:			Disposition	n:	QA: N/C	Closed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NC	R)			
DATE	OTED	Description of NC		tion B	Verifi	rification	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Dat	& Sec	tion C	Chief Eng	QC Inspector
							N.		
								}	

DART AEROSPACE LTD	Work Order:	419.82
Description: Crosstube Assembly	Part Number:	D206-667-243
Inspection Dwg: D206-667-243 Rev: C		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

	spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	2.490	+0.005/-0.000	2.490			Vern a.m.of	
	2.018	+0.005/-0.000	2.018	/			
	2.079	+0.005/-0.000	7.080	/			
	2.145	+0.005/-0.000	2.148				
	2.209	+0.005/-0.000	2.24				
	2.287	+0.005/-0.000	2.287	7			
⋖	2.363	+0.005/-0.000	7.368	/			
SIDE	2.433	+0.005/-0.000	2.438	/			
0,	0.200	+/-0.010	0.200				
	0.500 x 30°	+/-0.010	0.500 year	/			
	R0.063	+/-0.010	RO 063				
	R0.500	+/-0.010	RO.500				
	4.438	+/-0.030	4.43				
	104.91	+/-0.020	104.910			Tape mes.	
	2.490	+0.005/-0.000	2.490			Vernamor	
	2.018	+0.005/-0.000	2.018	<u> </u>			
	2.079	+0.005/-0.000	2.080	/			
	2.145	+0.005/-0.000	2.148	/			
	2.209	+0.005/-0.000	2.214	/			
മ	2.287	+0.005/-0.000	2.287				
SIDE	2.363	+0.005/-0.000	2.368	/			
S	2.433	+0.005/-0.000	2.438				
	0.200	+/-0.010	0.200	/			
	0.500 x 30°	+/-0.010	0.500420	. /			
	R0.063	+/-0.010	n0.063	/			
	R0.500	+/-0.010	RO .500	/			
	4.438	+/-0.030	4.438	/			

Measured by:	Audited by:	MB	Preliminary Approval:	N/A
Date: 70.05.14	Date:	10-09-15	Date:	N/A

A 06.09.01 New Issue (P/O D206-667-203) KJ/JLM	Approved
	11
B 10.08.25 Dwg Rev updated KJ	

W/O:			W	ORK ORDER CHANG	FS					
DATE	STEP	PRO	PROCEDURE CHANGE					Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	egory:	_ NCR: Ye	s No	DQ	4 :	_ Date: _		
	Resolution: Disposition:				_ QA: N/C	Close	ed:		Date:	
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NO	CR)				
DATE	STEP	Description of NC		Corrective Action Section B			Verific	ication	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da		Secti	on C	Chief Eng	QC Inspector
	i									

Item Qtv Part Number Description -243 D206-667-243 CROSSTUBE ASSEMBLY (206L HIGH AFT) D6004-115 CROSSTUBE D2873-043 **NUT PLATE** 4 2 D2873-045 NUT PLATE D2892-1 SUPPORT 6 4 D3595-063-450 RUBBER CUSHION 4 MS21920-22 CLAMP 8 14 MS20601AD4W10 RIVET (OR NAS9302B-4-10) A/R MAGNOBOND 6398 ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

8

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C

1) MATERIAL: MANUFACTURED FROM D6004-115

FINISHED LENGTH = 104.91±0.020

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D206-667-243" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: 21.9 lbs
- PART IS SYMMETRIC ABOUT CENTERLINE. 8)
- RUN CUTTER OFF PART WHERE INDICATED. BLEND OUT EDGE LONGITUDINALLY. 9) TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2892-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-22 CLAMPS WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2892-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMP MECHANISMS ARE LOCATED ON CROSSTUBE SUPPORTS.
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0,005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOPCICHY UNCONTRA SUBJECT TO LAND WITHOUT WITHOUT WORK OKLA?

NO. __(1982

BS 10-9-14



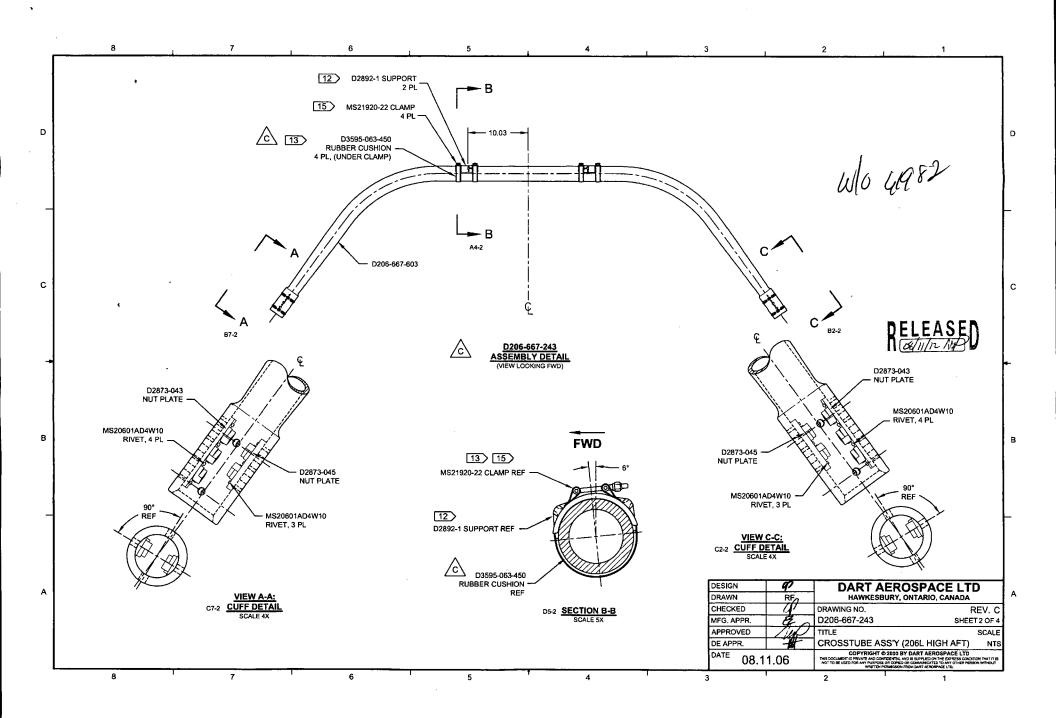
REVISE GENERAL NOTES/PART LIST (ZN D7-1); 08.11.06 REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS D3595-063-450 WAS D2856-400-773 (ZN D6-2 & A5-2); D399-063-490 WAS D2696-400-173 (2N 06-2 & A5-2); REMOVED REF. & ADD TOLERANCES (2N 4-3, CS-3, D3-3); RELOCATED FLAG #6 (ZN A8-3) PER NCR 210; MOVED TURNING DETAIL & UPDATED TOLERANCE TO SHEET 4. ADD HOLES AND NUT PLATES FOR COMPATABILITY 05.07.26 WITH BHT/AA SKUDTUBES NEW ISSUE 00.11.17 DESCRIPTION REV. BY DATE DESIGN DART AEROSPACE LTD DRAWN RF HAWKESBURY, ONTARIO, CANADA CHECKED DRAWING NO. REV. C D206-667-243 SHEET 1 OF 4 MFG, APPR APPROVED TITLE SCALE DE APPR. CROSSTUBE ASS'Y (206L HIGH AFT) NTS COPYRIGHT © 2000 BY DART AEROSPACE LTD
THIS DOCUMENT IS PRIVATE AND COMPRESSION OF TO BE USED FOR ANY PLRPORS OR COMPRO OR COMMUNICATED TO ANY OTHER PERSONS OR COMPANION OF THE PERSONS OR COMPANION OF THE PERSONS OF DATE 08.11.06

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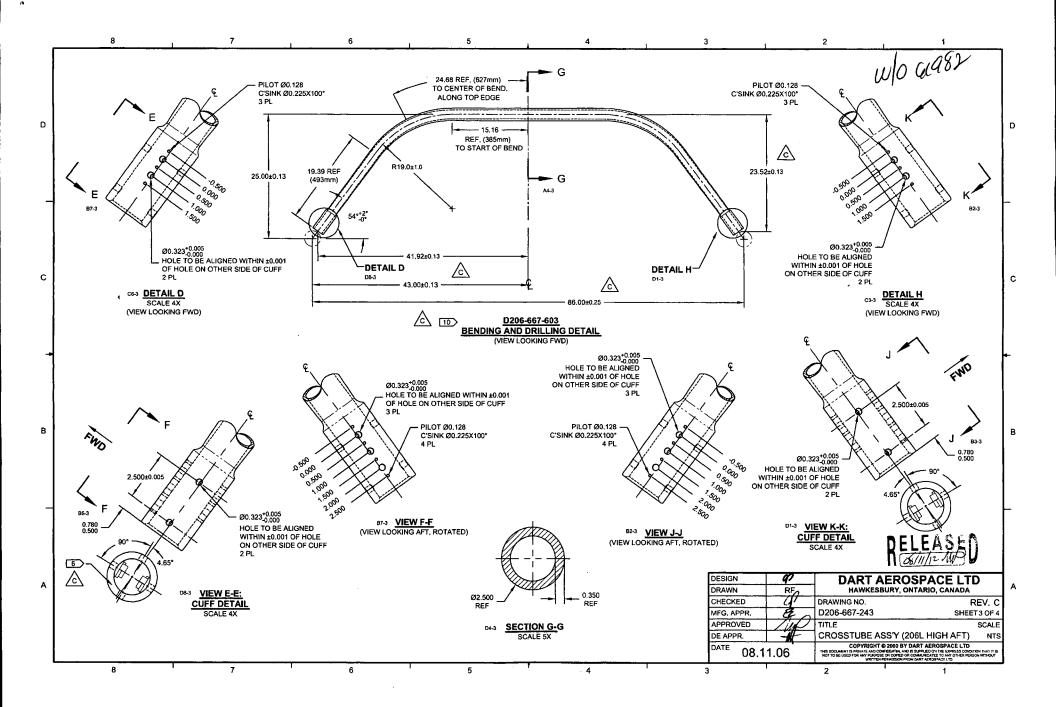
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W/O:			W	ORK ORDER CHANGE	ES			
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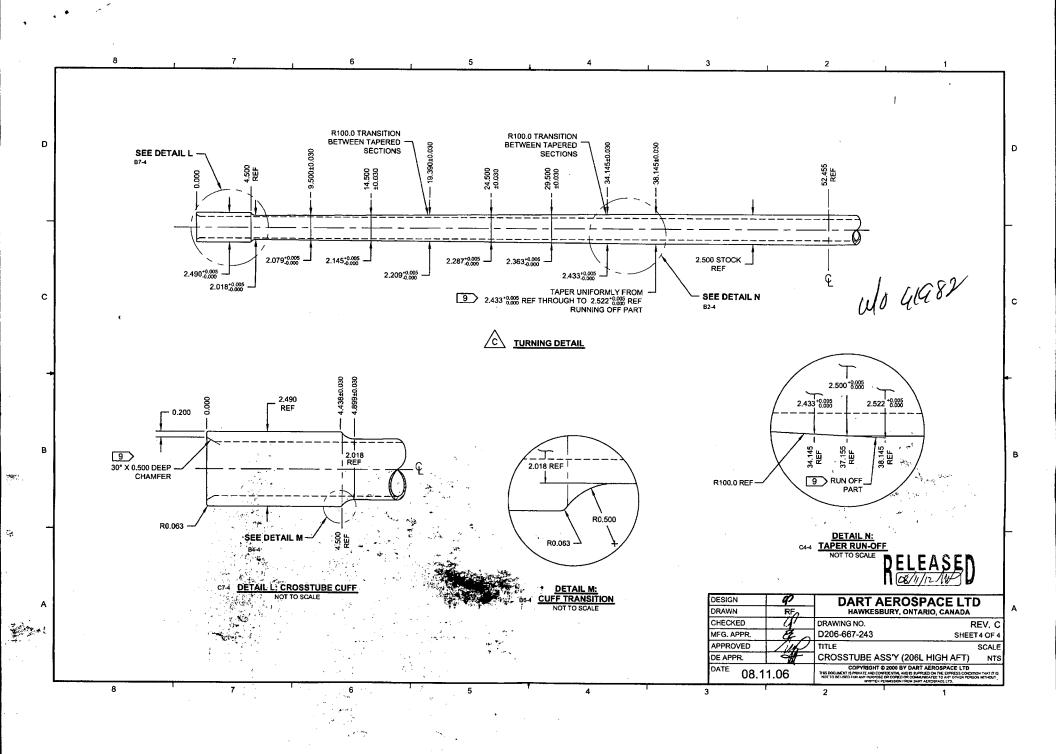


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NCR:			WORK ORD	ER NON-CONFORM	ANCE (NO	CR)					
DATE		Description of NC Section A	Corrective Action Section B				Verification	Approval	Approval		
DATE	STEP		Initial Chief Eng	Action Description Chief Eng	Sig Da	n & 📗	Section C	Chief Eng	QC Inspector		
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